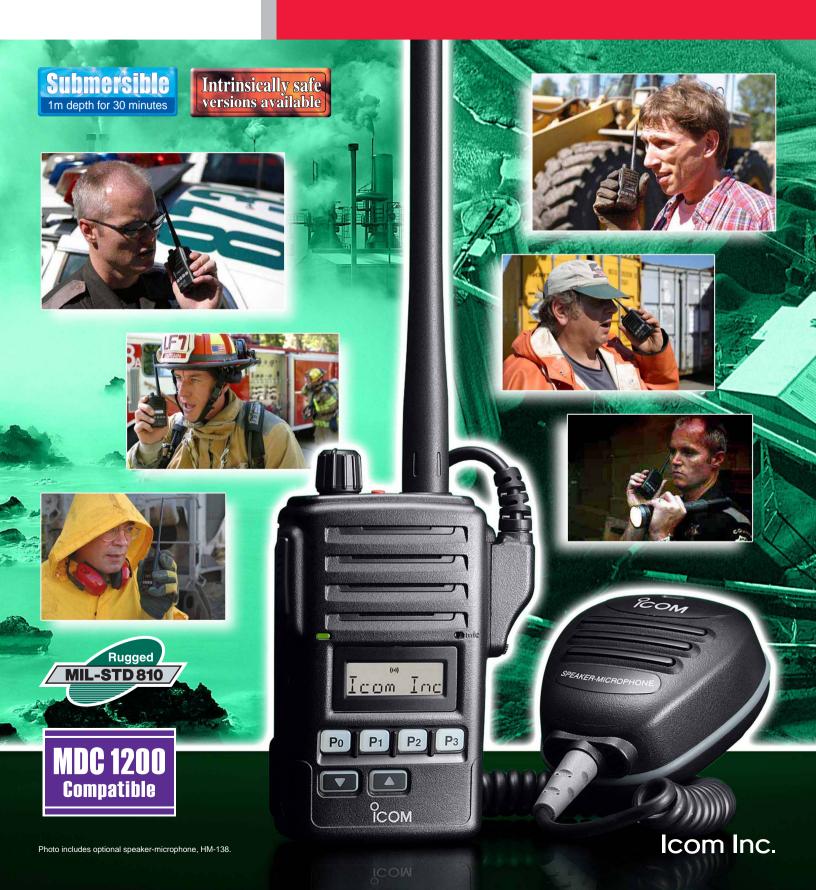


VHF AND UHF TRANSCEIVERS

IC-F50 IC-F60

(VHF Transceiver)

(UHF Transceiver)





Superior Wat **Supports Der**

Firefighters, Police, Security, own unique challenges, but a munications. Icom's IC-F50/F easy to use. Rain or shine, th

IPX7 waterproof protection

The gasket sealed waterproof housing pro-

vides superior waterproof protection, equivalent to IPX7*. Reliable and dependable use in harsh conditions such as rain, snow, sudden change in temperature, make the IC-F50/F60 the radio for all situations.



* According to the international standard IEC 529 (1989). 1m depth for 30 minutes.

Built-in Tone signaling

Use the built-in CTCSS, DTCS, 2-Tone and 5-Tone capability to set up your own talk groups and quiet stand-by when others are talking. You can also set up selective calls to individuals or control a repeater.

Multiple 2-Tone, Multiple 5-Tone

Up to 10 2-Tone codes can be decoded on a single memory channel. This is perfect for professionals who require multiple district paging on one channel. When a matched tone is received, the following items are programmable for each code.

- · Bell icon
- Stun Answer back
- Beep sound
 Auto transmit
- - Scan

VHF AND UHF TRANSCEIVERS

C-F50 VHF transceiver C-F60

UHF transceiver

terproof Protection manding Communication

Oil industry and Public utilities. Each profession has its all have one thing in common: the need for reliable com-F60 offers a compact waterproof, MIL STD package, that's nis radio keeps you in contact in nearly any environment.



Li-lon battery pack

The large capacity 1700mAh Lithium-Ion (Li-Ion) battery pack, BP-227 provides a practical 10 hours* of operating time. Li-Ion batteries allow flexible charging and have almost no memory effect.

* Typical operation Tx:Rx: Stand-by=5:5:90

Up to 7 programmable buttons

The [P0]-[P3], [Red] and [Up], [Down] buttons are programmable to meet specific needs. The [Red] button on the top panel can be assigned as an emergency trigger.

Alphanumeric display

The 8-character alphanumeric display shows channel, bank, tone code and scanning channel names on the display. 7 operational icons on the sub-line show various status at a glance.



Upper and lower case characters available.

Wide range coverage and large channel capacity

The IC-F50/F60 covers a wide frequency range in one version. The large capacity of 128 memory channels with 8 memory banks allows you to divide and store a variety of channels from local to wide area network channels. Both wide and narrow (25/12.5kHz) channel bandwidth is programmable to each channel.

Compact body

56(W)×97(H)×36.4(D) mm* compact body with durable, dependable construction, has been tested to MIL standard specifications. * $2^{7}/_{32}(W) \times 3^{13}/_{16}(H) \times 1^{7}/_{16}(D)$ in

Built-in voice scrambler

The IC-F50/F60 has a built-in inversion type voice scrambler in all versions. When a more secure system is required, versions with a rolling type voice scrambler* equivalent to the UT-110 are available.

* Built-in, optional unit not required.

MDC 1200 Compatible

The following selective calling and ANI features are available with the built-in MDC signaling.

- PTT ID
- · Radio check
- · Caller ID
- · Selective call
- · Emergency, emergency mic monitoring
- · Radio stun/revive · 500 Aliases
- Status/message Call alert

Intrinsically safe version

Intrinsically safe version approved by the FMRC, is suitable for use in hazardous areas where flammable gasses or liquids are used. See specification page for applied classes.

Other features

· Built-in audio compander · 8 DTMF automemories Powerful (VHF/UHF) output · Normal and priority scans • 2 step power saver • Optional AA alkaline battery case, BP-226 for battery back up · Busy, repeater lockout functions

· Power ON password, and more...

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.



BP-226 BATTERY CASE: AA (LR6)×5 alkaline cells. BP-226 is water-resistant, equivalent to IPX4 BP-227/BP-227FM Li-lon BATTERY PACK, 7.2V/1700mAh

BP-227FM is intrinsically safe version

Provides 10 hours operating time* (approx.). Operating temp. range: -20°C to +60°C; -4°F to +140°F.
* Tx: Rx: standby=5:5:90.

SPEAKER-PHONE



HM-138: Full sized, water-MB-86: Swivel type. Prevents accidental dropping from your belt.

MB-98 : Alligator type. Same as supplied. to IPX7. (1 m/30 min.)



+ BC-147A/F AC ADAPTER Regularly charges the BP-227 in 9-10



BC-119N DESKTOP CHARGER + AD-100 CHARGER ADAPTER Rapidly charges the BP-227 in 2.5-3 hrs



BC-121N MULTI-CHARGER + AD-100 CHARGER ADAPTER + BC-157 AC ADAPTER

Rapid charges up to 6 battery packs (Six AD-100s are required) in 2.5-3 hours. OPC-656 DC POWER CABLE: For use with the BC-121N, (12-20V DC required)



MB-96F: Fixed type belt hanger for use with MR-98 Swivel type belt hanger



CP-17L : CIGARETTE LIGHTER CABLE OPC-515L DC POWER CABLE For use with the BC-152 or BC-119N. (12-16V DC required)



OPC-966: BS-232C interface cable for connecting with a PC

FA-S24V: 136–150MHz (Blue ring) FA-S59V: 150–174MHz (Red ring) FA-S27U: 400-470MHz (Green ring) FA-S56U: 450–520MHz (Red ring) FA-S74U: 490-520MHz (Blue ring)

STUBBY ANTENNAS

FA-S62VS: 150–162MHz (Red ring) FA-S63VS: 160–174MHz (Green ring) FA-S57US: 450-490MHz (Red ring)

SPECIFICATIONS

GENERAL · Frequency range 136-174MHz IC-F50 IC-F60 400-470MHz 450-512MHz (U.S.A.) 450-520MHz (General) : Max. 128 channels/ 8 banks · Number of Channels · Channel spacing : 12.5/25kHz. 15/30kHz · Antenna impedance : 50Ω (SMA Type) · Frequency error : ±2.5ppm PLL channel step

IC-F50

2 5/3 125kHz IC-F60 5/6.25kHz : 7.2V DC Power supply requirement

· Current drain (approx)

IC-F50 1.5A/0.7A (5W/1W) Transmit

IC-F60 1.5A/0.8A (4W/1W)

AF max. 300mA Receive Stand-by 85mA

• Operating temperature range : -30°C to +60°C; -22°F to +140°F

• Dimensions (W x H x D) : 56 × 97 × 36.4 mm; 27/32 × 313/16 × 17/16 in. (projections not included)

· Weight (approx.; With BP-227) : 280g; 9.9oz

	TRANSMITTER		
Output power	: IC-F50	5.0W	
	IC-F60	4.0W	
Madulation avatam	· Variable rece	tanaa fraguanay madul	

 Modulation system : Variable reactance frequency modulation

· Max. frequency deviation : ±5kHz (wide) ±2.5kHz (narrow)

· Modulation limiting : 60-100% of Max. deviation · Audio harmonic distortion : 3% typ. (AF 1kHz, 40% deviation)

· Spurious emissions : 70dB Min. · Adjacent channel power : 70dB Min. (wide) 60dB Min. (narrow) • FM Hum and Noise : 46dB typ. (wide) 40dB typ. (narrow)

 External MIC impedance : 9-pin multi connector/2.2kΩ

Measurements made in accordance with EIA-152C/204D, TIA-603. All stated specifications are subject to change without notice or obligation.

INTRINSICALLY SAFE TYPE APPROVAL



There are versions that conform to intrinsically safe rating of the FMRC (Factory Mutual Research Corporation). Ask your dealer for details

Intrinsically safe: Class I, II and III, Division 1, Groups C, D, E, F, and G; Nonincendive: Class I, Division 2, Groups A, B, C and D hazardous locations when used with Icom BP-227FM battery pack. "Max. Temp. T3C at 40°C" Approved accessories: Speaker-microphone, HM-138

RECEIVER

 Sensitivity : 0.25µV typ. (at 12dB SINAD) · Squelch sensitivity : 0.25uV tvp. (at threshold)

· Adjacent channel selectivity : 75dB typ. (wide)

65dB tvp. (narrow)

 Spurious response · 70dB Intermodulation : 74dB typ. · Hum and noise : 45dB tvp. (wide) 40dB typ. (narrow)

· Audio output power : 0.5W typ. at 5% distortion with an 8Ω load

· External SP connector : 9-pin multi connector/8Ω

Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards

Standard	MIL 810C		MIL 810D		MIL 810E		MIL 810F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain Blowing/Drip	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	_
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	_
Dust Blowing	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

Supplied accessories:

· Antenna (Length may differ according to version)



· Alligator-type belt clip, MB-98

URL: http://www.icom.co.ip/world/index.html

· Battery pack, BP-227

Count on us!

ICOM Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

Icom America Inc. 2380 116th Avenue NE, Bellevue, WA 98004, U.S.A. Phone : +1 (425) 454-8155

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone : +1 (604) 952-4266 : +1 (604) 952-0090 E-mail : info@icomcanada.com : http://www.icomcanada.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road. Clayton, VIC 3168 Australia Phone : +61 (03) 9549 7500 Fax : +61 (03) 9549 7505 E-mail: sales@icom.net.au URL: http://www.icom.net.au

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand Phone: +64 (09) 274 4062 Fax: +64 (09) 274 4062 Fax: +64 (09) 274 4708 E-mail: inquiries@icom.co.nz URL: http://www.icom.co.nz

Icom (Europe) GmbH

Communication Equipment Himmelgeister Str. 100, D-40225 Düsseldorf, Germany Phone: +49 (0211) 346047 : +49 (0211) 333639 E-mail : info@icomeurope.com URL : http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer" 08190, Sant Cugat del Valles, Barcelona, Spain Phone : +34 (93) 590 26 70 Fax : +34 (93) 589 04 46 E-mail: icom@icomspain.com URL: http://www.icomspain.com

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K Phone : +44 (01227) 741741 Fax : +44 (01227) 741742 E-mail : info@icomuk.co.uk URL: http://www.icomuk.co.uk

Icom France S.a

Zac de la Plaine, 1, Rue Brindejonc des Moulinais BP 5804, 31505 Toulouse Cedex, France Phone: +33 (5) 61 36 03 03 Fax :+33 (5) 61 36 03 00 E-mail:icom@icom-france.com URL:http://www.icom-france.com

Icom Polska

Sopot, 3 maia 54, Poland Sopot, 3 maja 34, Poland Phone : +48 (58) 550 7135 Fax : +48 (58) 551 0484 E-mail : icompolska@icompolska.com.pl URL: http://www.icompolska.com.pl

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax: +886 (02) 2559 1874

Beijing Icom Ltd.

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China Phone : +86 (101) 5889 5391/5392/5393 Fax : +86 (010) 5889 5395 E-mail : bjicom @bjicom.com URL : http://www.bjicom.com

Your local distributor/dealer: